



Mail To: P.O. Box 740011  
Louisville, Kentucky 40201

July 29, 1994

Ms. Liza Montalvo  
Residual Project Manager  
Kentucky/Tennessee Section  
U. S. Environmental Protection Agency  
Region IV  
345 Courtland Street, N. E.  
Atlanta, Georgia 30365

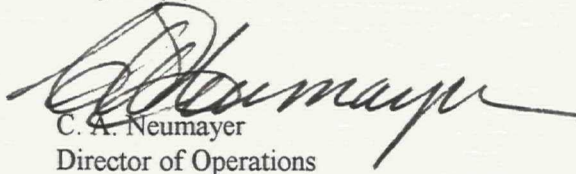
**Re: Report of Field Observation - FY 94, Fourth Quarter (FY94-4Q),  
Lees Lane Superfund Site, Jefferson County, Kentucky,  
Administrative Order on Consent, USEPA Docket No. 91-32-C**

Dear Ms. Montalvo:

In accordance with Paragraph 11, under the heading Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lees Lane Landfill Site, I am enclosing one (1) copy of the Report of Field Observation (Appendix J), identified as Observation Report No. FY94-4Q, for your information and files.

Please advise if you have any questions concerning the attached Report of Field Observation for FY94-4Q.

Very truly yours,

  
C. A. Neumayer  
Director of Operations

CAN/dc  
CAN1-1x

**DOCUMENT CONTROL NUMBER** 4400-83-AGVC

Enc.

cc: Kentucky Natural Resource Environment Protection Cabinet  
Rick Hogan, Division of Waste Management  
Kentucky Natural Resource Environment Protection Cabinet  
Mr. Jeff Pratt, Waste Management  
G. R. Garner, Executive Director  
File WD-2 (Lees Lane M&M Quarterly)



REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No: FY 94 - 40 Date of Observation 06/16/94  
Time Arrived Onsite: 10:05 a.m. Time Departed Site: 11:35 a.m.  
Field Personnel: C. A. Neumayer, Director of Operations and R. H. Watkins,  
Support Services Administrator, Maintenance Division

Section A: General Site Conditions

Observation:	Yes*	No	Not Observed	Comment No.
1. Major settlement of topsoil or erosion exposing waste/ fill material	<u>X</u>	<u>—</u>	<u>—</u>	<u>A-1</u>
2. Evidence of leachate seepage	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
3. Distressed Vegetation	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
4. Pot holes, erosion of access road	<u>X</u>	<u>—</u>	<u>—</u>	<u>A-4</u>

Section B: Institutional Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Structural problem with Lee's Lane gate or barricade	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
2. Structural problem with Putman Ave. Barricade	<u>X</u>	<u>—</u>	<u>—</u>	<u>B-2</u>
3. Lee's Lane gate unlocked	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
4. Broken or missing lock	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>

Section C: Gas Collection System

Observation:	Yes*	No	Not Observed	Comment No.
1. Vandalism to blower house, wells, or moisture traps	<u>X</u>	<u>—</u>	<u>—</u>	<u>C-1</u>
2. Structural damage to blower house	<u>X</u>	<u>—</u>	<u>—</u>	<u>C-2</u>
3. Blower not operating or visible damage	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
4. Blower house not secure and unclean	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>



Observation:	<u>Yes*</u>	<u>No</u>	<u>Not Observed</u>	<u>Comment No.</u>
5. Service box lids not in place	—	<u>X</u>	—	—
6. Alarm and blower controls not functioning	—	<u>X</u>	—	—
7. Settlement or tilting of well/moisture trap concrete collars	<u>X</u>	—	—	<u>C-7</u>
8. Well/moisture trap covers missing or damaged	—	<u>X</u>	—	—
9. Excessive vegetation covering wells/moisture traps	—	<u>X</u>	—	—
10. Adjustment valve inaccessible	—	<u>X</u>	—	—
11. Well/moisture trap caps, plugs, and piping missing or damaged	<u>X</u>	—	—	<u>C-11</u>
12. Blower house and well/moisture trap signs missing or damaged	<u>X</u>	—	—	<u>C-12</u>

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Section D: Groundwater & Gas Monitor Wells

Observation:	<u>Yes*</u>	<u>No</u>	<u>Not Observed</u>	<u>Comment No.</u>
1. Wells unlocked	—	<u>X</u>	—	—
2. Guard posts and rails missing or damaged	—	<u>X</u>	—	<u>D-2</u>
3. Protective casing missing, damaged or rusted	—	<u>X</u>	—	—
4. Concrete pads damaged or cracked	<u>X</u>	—	—	<u>D-4</u>
5. Possible surface water infiltration into wells	—	<u>X</u>	—	—
6. Excessive vegetation or debris around wells	—	<u>X</u>	—	—
7. Well cap missing or damaged	—	<u>X</u>	—	—
8. Tubing, fittings, and valves missing or damaged (gas wells only)	—	—	<u>X</u>	<u>D-8</u>

## Section E: Bank Protection Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Subsidence of slope, sloughing or caving	—	X	—	—
2. Erosion of rip-rap or underlying material	—	—	X	E-2
3. Abnormally damp areas, wet ground vegetation	—	X	—	—
4. Soft spots in surface	X	—	—	E-4
5. Seepage, water flow, piping, or sand boils	—	—	X	—
6. Undermining of rip-rap	—	X	—	—
7. Vegetative growth on rip-rap slope	X	—	—	E-7
8. Buildup of trash and debris on rip-rap	X	—	—	E-8
9. Exposed trash or filter fabric	—	X	—	—
10. Tilting trees	—	X	—	—
11. Tension cracks	—	X	—	—
12. Survey monuments missing or damaged	—	X	—	—

## Section F: Surface Waste Cleanup/Cover

Observation:	Yes*	No	Not Observed	Comment No.
1. Swales greater than 1 foot wide and 2 inches deep	—	X	—	F-1
2. Cracks greater than 1 inch wide and 6 inches deep	—	X	—	F-2
3. Areas of erosional damage to grass	—	X	—	—
4. Inadequate grass cover (area > 36 ft <sup>2</sup> )	—	X	—	—
5. Ponded water (area larger than 2 feet in diameter and 3 inches deep)	—	X	—	—
6. Erosion or ponded water greater than 12 inches deep (requires immediate repair)	—	X	—	—

\* If yes, assign a comment no. in the last column and follow instructions on comment sheet.



REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY - 4Q Date of Observation: 016/16/94

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

A-1	Fill material stockpiled and available for spreading and dressing of rutted areas in the vicinity of Gas Collection Well No. 6.
A-4	Depressed and rutted areas along roadway leading to Groundwater Monitoring Well No. 5 have been repaired. Also the levee access road south from Lees Lane has been resurfaced with gravel.
B-2	Conditions at Putman Avenue barricade remain unchanged from those observed during prior quarterly inspections. Security cable installed by MSD forces continues to prevent unauthorized entry to the site from adjacent residential properties at the end of Putman Avenue.
C-1	Some evidence of small arms fire damage to Blower House warning signs.

Comment No.

Corrective Action Performed

A-1	Stockpiled fill material should be spread in the rutted area in the vicinity of Gas Well No. 6 and surface dressed by the end of FY 95-4Q, weather permitting.
A-4	No further corrective action is required at this time.
B-2	No corrective action required at this time.
C-1	Small arms fire damage to concrete block walls of the Blower House and warning signs should be repaired before the end of FY 95-2Q. Electrical outlet box has been moved and reinstalled on opposite side of Blower House to prevent being a target for small arms fire.



REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94 - 40 Date of Observation: 06/16/94

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

<u>C-2</u> _____ _____ _____	<u>No significant structural damage to Blower House observed at the time of inspection except for some minor chipping of the concrete block by small arms fire. Most of prior small arms fire damage to concrete block had been repaired.</u> _____ _____
<u>C-7</u> _____ _____ _____	<u>Observed several gas collection well and moisture trap concrete collars damaged as a result of previous site mowing activities. This damage has been reported during prior quarterly institutional inspections for Wells Nos. 7, 13, and 15.</u> _____ _____
<u>C-11</u> _____ _____ _____	<u>Need to verify vacuum conditions of the well field piping systems between Gas Collection Wells No. 1 and 14, inclusive. Arrangements for investigation of vacuum conditions subject to scheduling arrangements between MSD's Urban Area, Maintenance Section, and Maintenance Division, Wastewater Repair Department.</u> _____ _____

Comment No.

Corrective Action Performed

<u>C-2</u> _____ _____	<u>No corrective action required at this time.</u> _____ _____
<u>C-7</u> _____ _____	<u>Several damaged concrete well and moisture trap collars to be scheduled for repair or replacement during FY 95-20.</u> _____ _____
<u>C-11</u> _____ _____ _____	<u>Vacuum testing needs to be scheduled in order to verify those gas collection wells not functioning properly. Following verification, selective exploratory excavation work will be performed to expose several well heads and moisture traps in order to determine what malfunctions are causing lack of vacuum from the collection system. Depending on the ability to schedule work and weather conditions, the testing and exploration should be performed before the end of FY 95 - 4Q.</u> _____ _____ _____



REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94 - 4Q Date of Observation: 06/16/94

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

E-2

Unable to observe any significant erosion of riprap or  
underlying material because of extensive vegetative  
growth which stabilizes the exposed river bank.

E-4

No observed change from previous quarterly inspections of  
the minor depression approximately 50 feet south of  
Benchmark No. 4 immediately west of the access road in the  
vicinity of the shale ditch swale.

E-7

Observed some evidence of small spotty areas of vegetative  
growth in the upper portion of the central tract riprap  
section protecting the clay cap area.

Comment No.

Corrective Action Performed

E-2

Arrangements to be made for procurement of an independent  
contractor to spray for control of excessive vegetation  
growth in the riprap section with approved herbicide prior  
to the end of FY 95 - 4Q in order to provide better observa-  
tion of the condition of riprap and underlying materials.  
Herbicide spraying of vegetation below the bottom of the  
riprap section adjacent to the Ohio River should not be  
made because the vegetation provides bank stability and  
avoids scouring under high water conditions on the river.

E-4

Continue to monitor minor depression observed approximately  
50 feet south of Benchmark No. 4 and west of the shale  
ditch swale at subsequent quarterly institutional inspections.

E-7

Continue observation of spotty vegetative growth areas in  
the upper portion of the central tract riprap section during  
subsequent quarterly institutional inspections.

Observation Report No. FY 94 - 40 Date of Observation 06/16/94

E-8	No corrective action proposed to remove drift from riprap section of the clay cap area because of the lack of appropriate access and the fact that the debris is not causing any problems at this time.
E-11	No further corrective action required at this time.
E-12	No further corrective action required at this time.



REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94-40

Date of Observation: 06/16/94

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

C-12

Observed that MSD maintenance forces have completed installation of new structural steel well and moisture trap markers for entire gas collection system. Markers are painted bright orange for high visibility with large well and moisture trap identification numbers stenciled on the steel markers in black.

D-2

Repairs have been made to damaged horizontal guardrails on gas monitoring wells.

D-4

Observed damage and cracking of concrete seal pads at Groundwater Wells Nos. 1, 2 and 3.

D-8

Condition of tubing and fittings at gas monitoring wells could not be observed because all security locks were in place. Assume all tubing and fittings are in working order because of their use during the quarterly field monitoring activities conducted earlier in the month (June, 1994).

Comment No.

Corrective Action Performed

C-12

All well and moisture trap markers have been installed, therefore, no further corrective action is required at this time.

D-2

No further corrective action required at this time.

D-4

Work of replacing cracked monitoring well seal pads is in progress and should be completed before the end of FY 95-20

D-8

No corrective action required at this time.

REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94 - 40 Date of Observation: 06/16/94

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

F-1 Observed the surface drainage swale between the cap access road and the top of the riprap section. This drainage swale is in satisfactory condition with no evidence of erosion or standing water between the access road and the riprap section.

F-2 Observed no significant cracks in the clay cap area.

Comment No.

Corrective Action Performed

F-1 Continue to monitor shale drainage swale at quarterly institutional inspections for any significant evidence of erosion or standing water.

F-2 No corrective action required at this time.



REPORT OF FIELD OBSERVATION  
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94 - 40 Date of Observation 06/16/94

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Site Map

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Signature of Observer: Carl A. Neumayer Date: July 29, 1994  
Carl A. Neumayer